

SOLICITATION CONTRACT/ORDER FOR COMMERCIAL ITEMS				INITIALS / CONTROL NO. wsh/041146		1. REQUISITION NUMBER N66604-3330-26N8	
OFFEROR MUST COMPLETE BLOCKS 12, 17, 23, 24, & 30							
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NUMBER		5. SOLICITATION NUMBER N66604-04-Q-1146	
						6. SOLICITATION ISSUE DATE 2004 FEB 20	
7. FOR SOLICITATION INFORMATION CALL:		a. NAME W. Hurley		b. TELEPHONE NUMBER (No collect calls) 401-832-1571		FAX NUMBER 401-832-4820	
						8. OFFER DUE DATE / LOCAL TIME 2004 MAR 04 2:00 PM	
9. ISSUED BY Commercial Acquisition Department, Building 11 Naval Undersea Warfare Center Division, Newport Code 591, Simonpietri Drive Newport, RI 02841-1708		CODE N66604		10. THIS ACQUISITION IS <input type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE: 100% FOR <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input checked="" type="checkbox"/> Sole Source			
15. DELIVER TO: Receiving Officer, Naval Station Newport 47 Chandler Street Newport, RI 02841-1716 401-841-3872 MARK FOR: NUWC Division, Newport -- P.O.# N66604-04-Q-1146		CODE N66604		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input checked="" type="checkbox"/> SEE SCHEDULE 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) 13b. RATING DO-C9 14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP			
17a. CONTRACTOR / OFFEROR POC/TELE. NO. DUNS NUMBER:		CAGE CODE		16. ADMINISTERED BY CODE			
				18a. PAYMENT WILL BE MADE BY CODE			
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT ADDRESS IN OFFER				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK IS CHECKED <input type="checkbox"/> SEE NOTE ABOVE			
19. ITEM NO.		20. SCHEDULE OF SUPPLIES/SERVICES			21. QUANTITY		22. UNIT
		SEE PAGE 2					
DIST: File(1), Kr (1), 0221 (1), 0221 Rec Control (1), Orig (1)							
25. ACCOUNTING AND APPROPRIATION DATA						26. TOTAL AWARD AMOUNT (For Govt. Use Only)	
<input checked="" type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.							
<input type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.							
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ___ COPIES <input type="checkbox"/> TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY CONTINUATION SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.				29. AWARD OF CONTRACT: REFERENCE _____ OFFER <input type="checkbox"/> DATED _____. YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS: ALL ITEMS			
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)			
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)				30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER(TYPE OR PRINT)	
						31c. DATE SIGNED	
32a. QUANTITY IN COLUMN 21 HAS BEEN <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED: _____							
32b. SIGNATURE OF AUTHORIZED GOVT. REPRESENTATIVE				32c. DATE		32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVT. REPRESENTATIVE	
32e. MAILING ADDRESS OF AUTHORIZED GOVT. REPRESENTATIVE				32f. TELEPHONE NUMBER OF AUTHORIZED GOVT. REPRESENTATIVE			
				32g. E-MAIL OF AUTHORIZED GOVT. REPRESENTATIVE			
33. SHIP. NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		34. VOUCHER NUMBER		35. AMOUNT VERIFIED CORRECT FOR		36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	
38. S/R ACCOUNT NUMBER		39. S/R VOUCHER NUMBER		40. PAID BY		37. CHECK NUMBER	
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT.				42a. RECEIVED BY (Print)			
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER				41c. DATE			
				42b. RECEIVED AT (Location)			
				42c. DATE REC'D (YY/MM/DD)			
				42d. TOTAL CONTAINERS			

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
0001	Design and Fabricate Pressure Vessel with Optically Clear Dome per Attachments 1 and 2.	1	EA		
0002	Pressure Vessel with Optically Clear Dome per Attachments 1 and 2 and the design performed under CLIN 0001	1	EA		
0003	Data for items 0001 and 0002 per Exhibit "A", Data Item Numbers A001 – A005	1	LO	NSP	NSP

DIRECT ALL PAYMENT INQUIRIES TO:

1. If your company's name begins with "A" through "I", contact Nancy Freeman at 401-832-5953.
2. If your company's name begins with "J" through "Z", contact Martha Heitzenrater at 401-832-5957.
3. The FAX number for Receipt Control is 401-832-3075

DELIVERY SCHEDULE

(a) The Government requires delivery to be made according to the following schedule:

ITEM NUMBER	QUANTITY	SCHEDULE
0001	1	2004 Oct 01
002	1	2004 Oct 01

(b) The Government will consider offers that propose earlier delivery than the required delivery schedule. Offers that propose delivery that will not clearly fall within the delivery schedule specified above, will either be considered unacceptable, or a later delivery schedule will be negotiated with all offerors. The Government reserves the right to award under either the required delivery schedule or the proposed delivery schedule. If the offeror proposes no other delivery schedule, the required delivery schedule above will apply.

OFFEROR'S PROPOSED DELIVERY SCHEDULE

ITEM NUMBER	QUANTITY	SCHEDULE

CONTRACT CLAUSES ADDENDUM**52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS -- COMMERCIAL ITEMS (JUN 2003)**

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clause, which is incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items: 52.233-3, Protest after Award (AUG 1996) (31 U.S.C. 3553).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the contracting officer has indicated as being incorporated in this contract by reference to implement provisions of law or executive orders applicable to acquisitions of commercial items or components:

(Contracting Officer shall check as appropriate.)

- ___ (1) 52.203-6, Restrictions on Subcontractor Sales to the Government (Jul 1995), with Alternate I (Oct 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).
- ___ (2) 52.219-3, Notice of HUBZone Small Business Set-Aside (Jan 1999)(15 U.S.C. 657a).
- ___ (3) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jan 1999) (if offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).
- ___ (4) (i) 52.219-5, Very Small Business Set-Aside (Jun 2003) (Pub. L. 103-403, section 304, Small Business Reauthorization and Amendments Act of 1994).

- ___ (ii) Alternate I (Mar 1999) of 52.219-5.
- ___ (iii) Alternate II (Jun 2003) of 52.219-5.
- ___ (5)(i) 52.219-6, Notice of Total Small Business Set-Aside (Jun 2003) (15 U.S.C. 644).
- ___ (ii) Alternate I (Oct 1995) of 52.219-6.
- ___ (6)(i) 52.219-7, Notice of Partial Small Business Set-Aside (Jun 2003) (15 U.S.C. 644).
- ___ (ii) Alternate I (Oct 1995) of 52.219-7.
- ___ (7) 52.219-8, Utilization of Small Business Concerns (Oct 2000) (15 U.S.C. 637 (d)(2) and (3)).
- ___ (8)(i) 52.219-9, Small Business Subcontracting Plan (Jan 2002) (15 U.S.C. 637 (d)(4)).
- ___ (ii) Alternate I (Oct 2001) of 52.219-9.
- ___ (iii) Alternate II (Oct 2001) of 52.219-9.
- ___ (9) 52.219-14, Limitations on Subcontracting (Dec 1996) (15 U.S.C. 637(a)(14)).
- ___ (10), (11) and (12) are not applicable to this acquisition.
- X (13) 52.222-3, Convict Labor (Jun 2003) (E.O. 11755).
- X (14) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Sep 2002) (E.O. 13126).
- X (15) 52.222-21, Prohibition of Segregated Facilities (Feb 1999)
- X (16) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).
- X (17) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212).
- X (18) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 1998) (29 U.S.C. 793).
- X (19) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212).
- ___ (20)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Aug 2000) (42 U.S.C. 6962(c)(3)(A)(ii)).
- ___ (ii) Alternate I (Aug 2000) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)).
- ___ (21) through (23) are not applicable to this acquisition.
- X (24) 52.225-13, Restrictions on Certain Foreign Purchases (DEV) (Jul 2003) (E.O. 12722, 12724, 13059, 13067, 13121, and 13129).
- ___ (25) and (26) are not applicable to this acquisition.
- ___ (27) 52.232-29, Terms for Financing of Purchases of Commercial Items (Feb 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).
- ___ (28) 52.232-30, Installment Payments for Commercial Items (Oct 1995) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).
- ___ (29) through (31) are not applicable to this acquisition.
- ___ (32) 52.239-1, Privacy or Security Safeguards (Aug 1996) (5 U.S.C. 522a).
- ___ (33)(i) 52.247-64, Preference for Privately Owned U.S.-Flagged Commercial Vessels (Apr 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631).
- ___ (ii) Alternate I (APR 1984) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, which the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or executive orders applicable to acquisitions of commercial items or components:

(Contracting Officer check as appropriate.)

- ___ (1) 52.222-41, Service Contract Act of 1965, as Amended (May 1989) (41 U.S.C. 351, et seq.).
- ___ (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (May 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- ___ (3) 52.222-43, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Multiple Year and Option Contracts) (May 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- ___ (4) 52.222-44, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Feb 2002) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).
- ___ (5) 52.222-47, SCA Minimum Wages and Fringe Benefits Applicable to Successor Contract Pursuant to Predecessor Contractor Collective Bargaining Agreement (CBA) (May 1989) (41 U.S.C. 351, et seq.).

(d) *Comptroller General Examination of Record.* The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records -- Negotiation.

- (1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c) or (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (i) through (vi) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--

- (i) 52.219-8, Utilization of Small Business Concerns (Oct 2000) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (ii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246);
- (iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212);
- (iv) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 1998) (29 U.S.C. 793);
- (v) 52.222-41, Service Contract Act of 1965, as Amended (May 1989), flow down required for all subcontracts subject to the Service Contract Act of 1965 (41 U.S.C. 351, et seq.).
- (vi) 52.247-64, Preference for Privately Owned U.S.-Flagged Commercial Vessels (46 U.S.C. 1241) (flow down not required for subcontracts awarded beginning May 1, 1996).

(2) While not required, the contractor May include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

252.212-7001 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS APPLICABLE TO DEFENSE ACQUISITIONS OF COMMERCIAL ITEMS (JUN 2003)

(a) The Contractor agrees to comply with the following Federal Acquisition Regulation (FAR) clause which, if checked, is included in this contract by reference to implement a provision of law applicable to acquisitions of commercial items or components.

 X 52.203-3, Gratuities (APR 1984) (10 U.S.C. 2207)

(b) The Contractor agrees to comply with any clause that is checked on the following list of Defense FAR Supplement clauses which, if checked, is included in this contract by reference to implement provisions of law or Executive Orders applicable to acquisitions of commercial items or components.

- 252.205-7000, Provision of Information to Cooperative Agreement Holders (DEC 1991) (10 U.S.C. 2416)
- 252.219-7003, Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan (DoD Contracts) (APR 1996) (15 U.S.C. 637)
- 252.219-7004, Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan (Test Program) (JUN 1997) (15 U.S.C. 637 note)
- 252.225-7001, Buy American Act and Balance of Payments Program (APR 2003) (41 U.S.C. 10a-10d, E.O. 10582).
- X 252.225-7012, Preference for Certain Domestic Commodities (FEB 2003) (10 U.S.C. 2533a)
- 252.225-7014, Preference for Domestic Specialty Metals (APR 2003) (10 U.S.C. 2533a).
- 252.225-7015, Preference for Domestic Hand or Measuring Tools (APR 2003) (10 U.S.C. 2533a).
- 252.225-7016, Restriction on Acquisition of Ball and Roller Bearings (APR 2003)
- (X Alternate I) (APR 2003) (10 U.S.C. 2534 and Section 8099 of Pub. L. 104-61 and similar sections in subsequent DoD appropriations acts).
- 252.225-7021, Trade Agreements (APR 2003) (19 U.S.C. 2501-2518, and 19 U.S.C. 3301 note).

- ___ 252.225-7027, Restriction on Contingent Fees for Foreign Military Sales (APR 2003)
(22 U.S.C. 2779)
- ___ 252.225-7028, Exclusionary Policies and Practices of Foreign Governments (APR 2003)
(22 U.S.C. 2755)
- ___ 252.225-7036, Buy American Act--North American Free Trade Agreement Implementation Act--Balance of
Payments Program (APR 2003) (___ Alternate I) (APR 2003)
(41 U.S.C. 10a -10d and 19 U.S.C. 3301 note).
- ___ 252.225-7038, Restriction on Acquisition of Air Circuit Breakers (APR 2003)
- (10 U.S.C. 2534(a)(3)).
- X** 252.227-7013, Rights in Technical Data -- Noncommercial Items (Nov 1995)
- ___ 252.227-7015, Technical Data--Commercial Items (NOV 1995) (10 U.S.C. 2320)
- X** 252.227-7016, Rights in Bid or Proposal Information (Jun 1995)
- X** 252.227-7037, Validation of Restrictive Markings on Technical Data (SEP 1999) (10 U.S.C. 2321)
- ___ 252.232-7003, Electronic Submission of Payment Requests (MAR 2003) (10 U.S.C. 2227)
- ___ 252.243-7002, Requests for Equitable Adjustment (MAR 1998) (10 U.S.C. 2410)
- X** 252.247-7023, Transportation of Supplies by Sea (MAY 2002) (___ Alternate I (MAR 2000),
(___ Alternate II (MAR 2000))(___ Alternate III (MAY 2002))(10 U.S.C. 2631)
- ___ 252.247-7024, Notification of Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631)

(c) In addition to the clauses listed in paragraph (e) of the Contract Terms and Conditions Required to Implement Statutes or Executive Orders--Commercial Items clause of this contract (FAR 52.212-5), the Contractor shall include the terms of the following clauses, if applicable, in subcontracts for commercial items or commercial components, awarded at any tier under this contract:

- 252.225-7014, Preference for Domestic Specialty Metals, Alternate I (APR 2003) (10 U.S.C. 2533a)
- 252.247-7023, Transportation of Supplies by Sea (MAY 2002) (10 U.S.C. 2631)
- 252.247-7024, Notification of Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631)

ADDITIONAL CONTRACT TERMS AND CONDITIONS -- APPLICABLE WHEN CHECKED.

- ___ **52.219-6, NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE (JUN 2003)**
- ___ **52.232-33, PAYMENT BY ELECTRONIC FUNDS TRANSFER - CENTRAL CONTRACTOR
REGISTRATION) (MAY 1999)**
- ___ **252.204-7004, REQUIRED CENTRAL CONTRACTOR REGISTRATION (NOV 2001)**
- X** **52.232-36, PAYMENT BY THIRD PARTY (MAY 1999)**

YEAR 2000 WARRANTY – INFORMATION TECHNOLOGY

(a) The Contractor warrants that all information technology (IT) (as defined at FAR 2.101), whether commercial or noncommercial, delivered under this contract that will be required to perform date/time processing involving dates subsequent to December 31, 1999, shall be Year 2000 compliant if properly installed, operated, and maintained in accordance with the contract specifications and applicable documentation. If the contract requires that specific deliverables operate together as a system, this warranty shall apply to those deliverables as a system.

(b) "Year 2000 compliant" (as defined at FAR 39.002) means that the IT accurately processes date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000 and leap year calculations, to the extent that other IT, used in combination with the IT being delivered, properly exchanges date/time data with it. The "proper exchange" of date/time data shall be in accordance with the interface requirements specification(s) of the contract.

(c) For line item deliverables which are commercial items (as defined at FAR 2.101), and which include commercial IT, the terms and conditions of the standard commercial warranty covering such commercial IT shall apply in addition to, and to

the extent such terms and conditions are consistent with, this warranty. Any applicable commercial warranty shall be incorporated into this contract by attachment.

(d) Notwithstanding any provision to the contrary in other warranty requirement(s) of this contract, or in the absence of any such warranty requirement(s), the remedies available to the Government under this warranty shall include those provided in the Inspection clause(s) of this contract. Nothing in this warranty shall be construed to limit any rights or remedies the Government may otherwise have under this contract.

(e) Unless specified elsewhere in the contract, the Contractor will also deliver to the Government a report summarizing any Year 2000 compliance testing that was performed, and the results thereof.

(f) This warranty shall expire on 31 January 2001, or one hundred eighty (180) days after acceptance of the last deliverable IT item under this contract (including any option exercised hereunder), whichever is later.

52.211-5, MATERIAL REQUIREMENTS, (AUG 2000)

ADDITIONAL MATERIAL REQUIREMENT (MAR 2001)

All items shall be new, as defined in FAR 52.211-5, Material Requirements.

INVOICES (APR 1984)

The Contractor's invoices must be submitted before payment can be made. The Contractor will be paid on the basis of the invoice, which must state --

(a) The starting and ending dates of the subscription delivery; and

(b) Either that orders have been placed in effect for the addressees required, or that the orders will be placed in effect upon receipt of payment.

INVOICE PROCEDURES AND LIMITATION OF LIABILITY

(a) Limitation of Liability. This order is subject to a "not-to-exceed" funding limitation and the amount currently available for payment hereunder is limited to the total "not-to-exceed" amount in Block 28 of the order. No legal liability on the part of the Government for payment in excess of this amount shall arise unless additional funds are made available and are incorporated as a modification to this order. If the contractor cannot perform in exact accordance with this order, withhold performance and notify the contracting officer immediately, giving your quotation.

(b) Invoicing. The contractor shall submit invoices to:

Name: , Code , Building

Mailing Address:

Naval Undersea Warfare Center Division, Newport
1176 Howell Street
Newport, RI 02841-1708

Telephone: Commercial: (401) 832-

(c) Final Adjustment. A written modification to this order will reflect actual costs incurred at the end of the order period, and be subject to a downward adjustment only. No changes can exceed the total "not-to-exceed" amount in Block 28 of the order, or as last modified.

ACCESS TO GOVERNMENT SITE (AUG 2002)

(a) Contractor personnel shall comply with all current badging and security procedures required to gain access to any Government site. Access to Naval Undersea Warfare Center Division, Newport sites may only be gained by obtaining a badge (either permanent or temporary) from the security office.

The Contractor shall ensure that Contractor personnel employed on any Government site become familiar with and obey Activity regulations. Contractor personnel shall not enter restricted areas unless required to do so and until cleared for such entry. The Contractor shall request permission to interrupt any activity roads or utility services in writing a minimum of 15 calendar days prior to the date of interruption. Contractor personnel shall bear personal protective equipment in designated areas. All contractor equipment shall be conspicuously marked for identification.

The contractor shall strictly adhere to Federal Occupational Safety and Health Agency (OSHA) Regulations, Environmental Protection Agency (EPA) Regulations, and all applicable state and local requirements.

(b) The contractor shall ensure that each contractor employee reads the pamphlet entitled, "Safety and Occupational Health Information for Contractors and Visitors" prior to commencing performance at any NUWCDIVNPT site. Contact Code 552 at 401-832-3534 or 5890 in Newport, RI.

(c) The contractor shall ensure that each contractor employee reads the document entitled, "NUWC Environmental Policy" prior to commencing performance at any NUWCDIVNPT site. This document is available at <https://www.npt.nuwc.navy.mil/envpol00.htm>.

(d) The contractor shall ensure that each contractor employee who is resident at any NUWCDIVNPT site completes ISO 14001 Awareness training within 30 days of commencing performance at that site. This training is available on the ISO 14001 webpage on the NUWCDIVNPT Intranet.

(e) The contractor shall remove from the Government site any individual whose presence is deemed by the Commander, NUWCDIVNPT, to be contrary to the public interest or inconsistent with the best interests of national security.

SOLICITATION PROVISIONS

The following provisions marked with an X apply to this solicitation:

X 52.212-2 EVALUATION -- COMMERCIAL ITEMS (JAN 1999)

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers:

- (1) technical capability of the item offered to meet the Government requirement;
- (2) price;
- (3) past performance

Technical and past performance, when combined, are significantly more important than price.

(b) *Options.* The Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. The Government may determine that an offer is unacceptable if the option prices are significantly unbalanced. Evaluation of options shall not obligate the Government to exercise the option(s).

(c) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

X 52.212-1 INSTRUCTIONS TO OFFERORS -- COMMERCIAL ITEMS (JUL 2003)

(a) *North American Industry Classification System (NAICS) code and small business size standard.* The NAICS code and small business size standard for this acquisition appear in Block 10 of the solicitation cover sheet (SF 1449). However, the small business size standard for a concern which submits an offer in its own name, but which proposes to furnish an item which it did not itself manufacture, is 500 employees.

(b) *Submission of offers.* Submit signed and dated offers to the office specified in this solicitation at or before the exact time specified in this solicitation. Offers may be submitted on the SF 1449, letterhead stationery, or as otherwise specified in the solicitation. As a minimum, offers must show --

- (1) The solicitation number;
- (2) The time specified in the solicitation for receipt of offers;
- (3) The name, address, and telephone number of the offeror;
- (4) A technical description of the items being offered in sufficient detail to evaluate compliance with the requirements in the solicitation. This may include product literature, or other documents, if necessary;
- (5) Terms of any express warranty;
- (6) Price and any discount terms;
- (7) "Remit to" address, if different than mailing address;
- (8) A completed copy of the representations and certifications at FAR 52.212-3;
- (9) Acknowledgment of Solicitation Amendments;
- (10) Past performance information, when included as an evaluation factor, to include recent and relevant contracts for the same or similar items and other references (including contract numbers, points of contact with telephone numbers and other relevant information); and

(11) If the offer is not submitted on the SF 1449, include a statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation. Offers that fail to furnish required representations or information, or reject the terms and conditions of the solicitation may be excluded from consideration.

(c) *Period for acceptance of offers.* The offeror agrees to hold the prices in its offer firm for 30 calendar days from the date specified for receipt of offers, unless another time period is specified in an addendum to the solicitation.

(d) *Product samples.* When required by the solicitation, product samples shall be submitted at or prior to the time specified for receipt of offers. Unless otherwise specified in this solicitation, these samples shall be submitted at no expense to the Government, and returned at the sender's request and expense, unless they are destroyed during preaward testing.

(e) *Multiple offers.* Offerors are encouraged to submit multiple offers presenting alternative terms and conditions or commercial items for satisfying the requirements of this solicitation. Each offer submitted will be evaluated separately.

(f) *Late submissions, modifications, revisions, and withdrawals of offers.*

(1) Offerors are responsible for submitting offers, and any modifications, revisions, or withdrawals, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is specified in the solicitation, the time for receipt is 4:30 p.m., local time, for the designated Government office on the date that offers or revisions are due.

(2) (i) Any offer, modification, revision, or withdrawal of an offer received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and-

(A) If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of offers; or

(B) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or

(C) If this solicitation is a request for proposals, it was the only proposal received.

(ii) However, a late modification of an otherwise successful offer, that makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

(3) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the offer wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

(4) If an emergency or unanticipated event interrupts normal Government processes so that offers cannot be received at the Government office designated for receipt of offers by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation or other notice of an extension of the closing date, the time specified for receipt of offers will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.

(5) Offers may be withdrawn by written notice received at any time before the exact time set for receipt of offers. Oral offers in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile offers, offers may be withdrawn via facsimile received at any time before the exact time set for receipt of offers, subject to the conditions specified in the solicitation concerning facsimile offers. An offer may be withdrawn in person by an offeror or its authorized representative if, before the exact time set for receipt of offers, the identity of the person requesting withdrawal is established and the person signs a receipt for the offer.

(g) *Contract award (not applicable to Invitation for Bids).* The Government intends to evaluate offers and award a contract without discussions with offerors. Therefore, the offeror's initial offer should contain the offeror's best terms from a price and technical standpoint. However, the Government reserves the right to conduct discussions if later determined by the Contracting Officer to be necessary. The Government may reject any or all offers if such action is in the public interest; accept other than the lowest offer; and waive informalities and minor irregularities in offers received.

(h) *Multiple awards.* The Government may accept any item or group of items of an offer, unless the offeror qualifies the offer by specific limitations. Unless otherwise provided in the Schedule, offers may not be submitted for quantities less than those specified. The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit prices offered, unless the offeror specifies otherwise in the offer.

(i) *Availability of requirements documents cited in the solicitation.*

(1) (i) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to--

GSA Federal Supply Service Specifications Section
Suite 8100
470 L'Enfant Plaza, SW

Washington, DC 20407
 Telephone (202) 619-8925
 Facsimile (202) 619-8978).

(ii) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (i)(1)(i) of this provision. Additional copies will be issued for a fee.

- (2) The DoD Index of Specifications and Standards (DoDISS) and documents listed in it may be obtained from the--
 Department of Defense Single Stock Point (DoDSSP)
 Building 4, Section D
 700 Robbins Avenue
 Philadelphia, PA 19111-5094

Telephone (215) 697-2667/2179; Facsimile (215) 697-1462.

(i) Automatic distribution may be obtained on a subscription basis.

(ii) Order forms, pricing information, and customer support information may be obtained--

(A) By telephone at (215) 697-2667/2179; or

(B) Through the DoDSSP Internet site at <http://dodssp.daps.mil>.

- (3) Nongovernment (voluntary) standards must be obtained from the organization responsible for their preparation, publication or maintenance.

(j) *Data Universal Numbering System (DUNS) Number.* (Applies to offers exceeding \$25,000.) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "DUNS" followed by the DUNS number that identifies the offeror's name and address. If the offeror does not have a DUNS number, it should contact Dun and Bradstreet to obtain one at no charge. An offeror within the United States may call 1-800-333-0505. The offeror may obtain more information regarding the DUNS number, including locations of local Dun and Bradstreet Information Services offices for offerors located outside the United States, from the Internet home page at <http://www.customerservice@dnb.com>. If an offeror is unable to locate a local service center, it may send an e-mail to Dun and Bradstreet at globalinfo@mail.dnb.com.

C30 MERCURY EXCLUSION - A

(a) The supplies furnished under this contract shall not contain any functional mercury. Functional mercury is that elemental mercury or mercury compound required for proper operation of the supplies or, without the presence of which the supplies would fail to function properly. The presence of "functional mercury" will be cause for rejection of supplies.

(b) External contamination by elemental mercury or mercury compounds will be cause for rejection of the supplies. If external mercury contamination is suspected, the following test can be used to determine if compounds exist. Enclose the equipment in a close-fitting polyethylene bag or air-tight container. The air volume inside the container should be approximately twice the volume of the item or component being tested. Place the bag or container in an oven at 125°F±5°F (52°C±3°C) for one hour. Sample the trapped air and if mercury vapor concentration is .01 mg/cu meter or more, the material is contaminated insofar as the requirements of this contract are concerned. Mercury vapor concentration can be determined with mercury vapor detector such as portable General Electric Vapor Detector (Catalog Number 825755G-3); Beckman Instrument, Model K-23; Thermotron Corporation Mercometer, Model 2006-IPR; Sunshine Instantaneous Vapor Detector (Catalog Number 38D); or other. Certain vapors such as benzene interfere with this type of mercury vapor detector and the detector should never be zero adjusted in any suspect atmosphere. An alternate procedure to determine mercury contamination is to have a portion of the item or component (not less than 10 percent of the area suspected of being contaminated) enclosed in a close-fitting polyethylene bag or air-tight container for eight hours at room temperature (76°F±10°F). Then the enclosed environment is analyzed for mercury using the above method.

Note: Not all classes of mercury compounds will be volatile at 125°F. Therefore, consideration should be given to supplementary chemical analysis.

(c) The Contractor will notify the Contracting Officer, prior to proceeding with a manufacture or shipment, if the presence of functional mercury is suspected. The Contractor shall conduct suitable tests to verify this suspicion.

E15 WITNESS OF INSPECTION OR TESTS

Because of the critical nature of the material being furnished hereunder, a representative of the Naval Undersea Warfare Center Division, Newport is available to furnish technical assistance on quality control matters and shall have the option of

conducting Quality Assurance surveillance of inspections and tests performed by the Contractor. The surveillance will be performed in conjunction with the Defense Contract Management Agency (DCMA) Quality Assurance representative, if assigned, and does not abrogate the responsibility or authority of such DCMA representative. The Contractor agrees to notify Dr. Robert Lafreniere, in writing, when the material will be inspected and/or tested. A minimum of seven working days is required to arrange such a visit.

G18 CONTRACT ADMINISTRATION FUNCTIONS (HARDWARE)

(a) The cognizant Administrative Contracting Office for this contract is identified in Block 12 on page one of this contract.

(b) The Administrative Contracting Officer (ACO) is delegated the following functions:

(1) All functions of FAR 42.302(a).

(2) The function of FAR 42.302(b)(4); negotiating and executing supplemental agreements providing for the deobligation of unexpended dollar balances considered excess to known contract requirements, and for the crediting of any overpayments made to the contractor. Attach a copy of the modification to the DD 1594 and forward to the PCO address (Attn: Code 5912 -- CLOSEOUT)

(3) The function of FAR 42.302(b)(6).

(c) If the ACO identifies a contract administration problem, the remedy for which is not covered by the above, the ACO shall request the PCO to delegate additional functions as necessary. The PCO may delegate authority by letter.

Technical Proposal Requirement:

Design Feasibility Study. The Contractor shall recommend the material used to fabricate the optical portion of the pressure vessel assembly and provide a technical feasibility study to verify that the material is of sufficient strength to withstand all environmental design loads (thermal shock, pressure, and flow loads). During the assessment of the optical material, the Contractor shall propose any design changes to the remaining portion of the pressure enclosure as a result of changes to the optical portion of the assembly.

The Contractor shall present the following information:

- a. Optical material selected for use in the dome assembly.
- b. Verification of the material's strengths and a cost-benefit analysis versus other materials.
- c. Changes to the non-optical portion of the assembly as a result of the selection of the optical material.

J10 LIST OF ATTACHMENTS

<u>EXHIBIT</u>	<u>TITLE</u>	<u>PAGES</u>
"A"	DD Form 1423, Contract Data Requirements List	6
<u>ATTACHMENT</u>		
1	Statement of Work	11
2	Performance Specification and drawing.	2

OFFEROR REPRESENTATIONS AND CERTIFICATIONS.

Complete the information required below and provide a copy with your offer.

CONTRACTOR IDENTIFICATION:

DUNS number is: _____

CAGE code is: _____

Taxpayer Identification Number (TIN) is: _____

**52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONS -- COMMERCIAL ITEMS
(JUN 2003) -- ALT I (APR 2002)**

(a) *Definitions.* As used in this provision:

"Emerging small business" means a small business concern whose size is no greater than 50 percent of the numerical size standard for the NAICS code designated.

"Forced or indentured child labor" means all work or service-

- (1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or
- (2) Performed by any person under the age of 18 pursuant to a contract the enforcement of which can be accomplished by process of penalties.

"Service-disabled veteran-owned small business concern"-

(1) Means a small business concern-

- (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
- (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern" means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and size standards in this solicitation.

"Veteran-owned small business concern" means a small business concern-

- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
- (2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned business concern" means a concern which is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of the its stock is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

"Women-owned small business concern" means a small business concern --

- (1) Which is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and
- (2) Whose management and daily business operations are controlled by one or more women.

(b) Is not applicable to this acquisition.

(c) Offerors must complete the following representations when the resulting contract is to be performed in the United States or its outlying areas. Check all that apply.

- (1) *Small business concern.* The offeror represents as part of its offer that it ☐ is, ☐ is not a small business concern.
- (2) *Veteran-owned small business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents as part of its offer that it ☐ is, ☐ is not a veteran-owned small business concern.

(3) *Service-disabled veteran-owned small business concern.* [Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (c)(2) of this provision.] The offeror represents as part of its offer that it ☐ is, ☐ is not a service-disabled veteran-owned small business concern.

(4) *Small disadvantaged business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents, for general statistical purposes, that it ☐ is, ☐ is not, a small disadvantaged business concern as defined in 13 CFR 124.1002.

(5) *Women-owned small business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents that it ☐ is, ☐ is not a women-owned small business concern.

Note: Complete paragraph (c)(6) only if this solicitation is expected to exceed the simplified acquisition threshold.

(6) *Women-owned business concern (other than small business concern).* [Complete only if the offeror is a women-owned business concern and did not represent itself as a small business concern in paragraph (c)(1) of this provision.]. The offeror represents that it ☐ is, a women-owned business concern.

(7), (8) and (9) are not applicable to this acquisition.

(10) *HUBZone small business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents as part of its offer that-

- (i) It ☐ is, ☐ is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns Maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and
- (ii) It ☐ is, ☐ is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (c)(11)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. [The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture: _____.] Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(11) (Complete if the offeror has represented itself as disadvantaged in paragraph (c)(4) of this provision.) [The offeror shall check the category in which its ownership falls]:

- ☐ Black American.
- ☐ Hispanic American.
- ☐ Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).
- ☐ Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory or the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).
- ☐ Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).
- ☐ Individual/concern, other than one of the preceding.

(d) Representations required to implement provisions of Executive Order 11246 --

(1) *Previous Contracts and Compliance.* The offeror represents that --

- (i) It ☐ has, ☐ has not, participated in a previous contract or subcontract subject either to the Equal Opportunity clause of this solicitation; and
- (ii) It ☐ has, ☐ has not, filed all required compliance reports.

(2) *Affirmative Action Compliance.* The offeror represents that --

- (i) It ☐ has developed and has on file, ☐ has not developed and does not have on file, at each establishment, affirmative action programs required by rules and regulations of the Secretary of Labor (41 CFR Subparts 60-1 and 60-2), or
- (ii) It ☐ has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(e) Certification Regarding Payments to Influence Federal Transactions (31 U.S.C. 1352). (Applies only if the contract is expected to exceed \$100,000.) By submission of its offer, the offeror certifies to the best of its knowledge and belief that no

Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress on his or her behalf in connection with the award of any resultant contract.

(f), and (g) are not applicable to this acquisition.

(h) Certification Regarding Debarment, Suspension or Ineligibility for Award (Executive Order 12549). The offeror certifies, to the best of its knowledge and belief, that—

(1) The offeror and/or any of its principals ☐ are, ☐ are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency; and

(2) ☐ Have, ☐ have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, state or local government contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and ☐ are, ☐ are not presently indicted for, or otherwise criminally or civilly charged by a Government entity with, commission of any of these offenses.

(i) is not applicable to this acquisition.

252.212-7000 OFFEROR REPRESENTATIONS AND CERTIFICATIONS--COMMERCIAL ITEMS (NOV 1995)

(a) Definitions. As used in this clause--

(1) "Foreign person" means any person other than a United States person as defined in Section 16(2) of the Export Administration Act of 1979 (50 U.S.C. App. Sec. 2415).

(2) "United States person" is defined in Section 16(2) of the Export Administration Act of 1979 and means any United States resident or national (other than an individual resident outside the United States and employed by other than a United States person), any domestic concern (including any permanent domestic establishment of any foreign concern), and any foreign subsidiary or affiliate (including any permanent foreign establishment) of any domestic concern which is controlled in fact by such domestic concern, as determined under regulations of the President.

(b) Certification. By submitting this offer, the Offeror, if a foreign person, company or entity, certifies that it--

(1) Does not comply with the Secondary Arab Boycott of Israel; and

(2) Is not taking or knowingly agreeing to take any action, with respect to the Secondary Boycott of Israel by Arab countries, which 50 U.S.C. App. Sec. 2407(a) prohibits a United States person from taking.

(c) Representation of Extent of Transportation by Sea. (This representation does not apply to solicitations for the direct purchase of ocean transportation services).

(1) The Offeror shall indicate by checking the appropriate blank in paragraph (c)(2) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term "supplies" is defined in the Transportation of Supplies by Sea clause of this solicitation.

(2) Representation. The Offeror represents that it--

_____ Does anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

_____ Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

(3) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense Federal Acquisition Regulation Supplement clause at 252.247-7024, Notification of Transportation of Supplies by Sea.

X **252.225-7000, BUY AMERICAN ACT -- BALANCE OF PAYMENTS PROGRAM CERTIFICATE (APR 2003)**

(a) Definitions. "Domestic end product," "foreign end product," "qualifying country," and "qualifying country end product," have the meanings given in the Buy American Act and Balance of Payments Program clause of this solicitation.

(b) Evaluation. The Government-

(1) Will evaluate offers in accordance with the policies and procedures of Part 225 of the Defense Federal Acquisition Regulation Supplement; and

(2) Will evaluate offers of qualifying country end products without regard to the restrictions of the Buy American Act or the Balance of Payments Program.

(c) Certifications and identification of country of origin.

(1) For all line items subject to the Buy American Act and Balance of Payments Program clause of this solicitation, the offeror certifies that--

(i) Each end product, except those listed in paragraph (c)(2) or (3) of this provision, is a domestic end product; and

(ii) Components of unknown origin are considered to have been mined, produced, or manufactured outside the United States or a qualifying country.

(2) The offeror certifies that the following end products are qualifying country end products:

Line Item No.

Country of Origin

_____	_____
_____	_____

(3) The following end products are other foreign end products:

Line Item No.

Country of Origin

_____	_____
_____	_____

CONTRACT DATA REQUIREMENTS LIST					OMB NO. 0704-0188			
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1024, Arlington, VA 22202-4302, and the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. Listed in Block E.								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT NO. B		C. CATEGORY: TDP_____TM_____OTHER_____				
D. SYSTEM/ITEM TOPGATE		E. CONTRACT/PR NO. N66604-3330-26N8			F. CONTRACTOR			
1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM			3. SUBTITLE				17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE			6. REQUIRING OFFICE Code 342			16. ESTIMATED TOTAL PRICE
7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION				
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE		b. COPIES		
						Draft	Final	
						Reg	Repro	
16. REMARKS								
This Data Item has been deleted.								
15. TOTAL	1	1						
1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM Technical Report-Study/Services			3. SUBTITLE Fabrication of Transparent Dome Assembly				17 PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508A		5. CONTRACT REFERENCE 1.4.2			6. REQUIRING OFFICE Code 342			18. ESTIMATED TOTAL PRICE
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY 1 Time/R	12. DATE OF FIRST SUBMISSION 30 DATC	14. DISTRIBUTION				
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION 15 DARC	a. ADDRESSEE		b. COPIES		
						Draft	Final	
						Reg	Repro	
16. REMARKS				LaFreniere, 3433				
Blk: Delete block 6a of the DID.								
15. TOTAL	1	1						
G. PREPARED BY R. LaFreniere, 3433		H. DATE	I. APPROVED BY DATA MANAGER			J. DATE 2/18/04		

CONTRACT DATA REQUIREMENTS LIST					OMB NO. 0704-0188			
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1024, Arlington, VA 22202-4302, and the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. Listed in Block E.								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT NO. B		C. CATEGORY: TDP _____ TM _____ OTHER _____				
D. SYSTEM/ITEM TOPGATE		E. CONTRACT/PR NO. N66604-3330-26N8			F. CONTRACTOR			
1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM Source Control Drawing Approval Request				3. SUBTITLE			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) DI-SESS-81010B		5. CONTRACT REFERENCE 1.4.4a			6. REQUIRING OFFICE Code 342			16. ESTIMATED TOTAL PRICE
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY 1 Time/R	12. DATE OF FIRST SUBMISSION 2004 Oct 01	14. DISTRIBUTION				
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION 15 DARC	a. ADDRESSEE	b. COPIES			
						Draft	Final	
						Reg	Repro	
16. REMARKS Blk 8: Government will have 5 days to review and comment				LaFreniere, 3433		1	1	
				15. TOTAL	1	1		
1. DATA ITEM NO. A004	2. TITLE OF DATA ITEM Production Drawings & Associated Lists				3. SUBTITLE			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) DI-SESS-81000B		5. CONTRACT REFERENCE 1.4.4b			6. REQUIRING OFFICE Code 342			18. ESTIMATED TOTAL PRICE
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY 1 Time/R	12. DATE OF FIRST SUBMISSION 2004 Oct 01	14. DISTRIBUTION				
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION 15 DARC	a. ADDRESSEE	b. COPIES			
						Draft	Final	
						Reg	Repro	
16. REMARKS Blk 8: Government will have 5 days to review and comment				LaFreniere,3433		1	1	
				15. TOTAL	1	1		
G. PREPARED BY R. LaFreniere, 3433		H. DATE		I. APPROVED BY DATA MANAGER			J. DATE 2/18/04	

CONTRACT DATA REQUIREMENTS LIST					OMB NO. 0704-0188			
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1024, Arlington, VA 22202-4302, and the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. Listed in Block E.								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT NO. <div style="text-align: center; font-weight: bold;">B</div>		C. CATEGORY: TDP _____ TM _____ OTHER _____				
D. SYSTEM/ITEM <div style="text-align: center; font-weight: bold;">TOPGATE</div>			E. CONTRACT/PR NO. <div style="text-align: center; font-weight: bold;">N66604-3330-26N8</div>		F. CONTRACTOR			
1. DATA ITEM NO. <div style="text-align: center; font-weight: bold;">A005</div>	2. TITLE OF DATA ITEM <div style="text-align: center; font-weight: bold;">Technical Report-Study/Services</div>				3. SUBTITLE <div style="text-align: center; font-weight: bold;">Final Report</div>			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) <div style="text-align: center; font-weight: bold;">DI-MISC-80508A</div>		5. CONTRACT REFERENCE <div style="text-align: center; font-weight: bold;">4.3</div>			6. REQUIRING OFFICE <div style="text-align: center; font-weight: bold;">Code 342</div>			16. ESTIMATED TOTAL PRICE
7. DD 250 REQ <div style="text-align: center; font-weight: bold;">DD</div>	9. DIST STATEMENT REQUIRED <div style="text-align: center; font-weight: bold;">D</div>	10. FREQUENCY <div style="text-align: center; font-weight: bold;">1 Time/R</div>	12. DATE OF FIRST SUBMISSION <div style="text-align: center; font-weight: bold;">2004 Oct 01</div>	14. DISTRIBUTION				
8. APP CODE <div style="text-align: center; font-weight: bold;">A</div>		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION <div style="text-align: center; font-weight: bold;">15 DARC</div>	a. ADDRESSEE	b. COPIES			
					Draft	Final		
				Reg	Repro			
16. REMARKS Blk 8: Government will have 5 days to review and comment Blk 4: Delete block 6a of the DID.					LaFreniere, 3433	1	1	
					15. TOTAL	1	1	
1. DATA ITEM NO. <div style="text-align: center; font-weight: bold;">A006</div>	2. TITLE OF DATA ITEM <div style="text-align: center; font-weight: bold;">Technical Report-Study/Services</div>				3. SUBTITLE <div style="text-align: center; font-weight: bold;">Mercury Exclusion certification</div>			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) <div style="text-align: center; font-weight: bold;">DI-MISC-80508A</div>		5. CONTRACT REFERENCE <div style="text-align: center; font-weight: bold;">4.5</div>			6. REQUIRING OFFICE <div style="text-align: center; font-weight: bold;">Code 342</div>			18. ESTIMATED TOTAL PRICE
7. DD 250 REQ <div style="text-align: center; font-weight: bold;">DD</div>	9. DIST STATEMENT REQUIRED <div style="text-align: center; font-weight: bold;">D</div>	10. FREQUENCY <div style="text-align: center; font-weight: bold;">1 Time/R</div>	12. DATE OF FIRST SUBMISSION <div style="text-align: center; font-weight: bold;">2004 Oct 01</div>	14. DISTRIBUTION				
8. APP CODE <div style="text-align: center; font-weight: bold;">A</div>		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION <div style="text-align: center; font-weight: bold;">15 DARC</div>	a. ADDRESSEE	b. COPIES			
					Draft	Final		
				Reg	Repro			
16. REMARKS Blk 4; Delete block 6a of the DID.					LaFreniere,3433	1	1	
					15. TOTAL	1	1	
G. PREPARED BY R. LaFreniere, 3433		H. DATE		I. APPROVED BY DATA MANAGER			J. DATE 2/18/04	

TECHNICAL DATA PACKAGE SELECTION WORKSHEET

PRODUCT DRAWINGS AND ASSOCIATED LISTS

A. CONTRACT NO.	B. EXHIBIT/ATTACHMENT NO.	C. CLIN	D. CDRL DATA ITEM NO. A003, A004
-----------------	---------------------------	---------	--

1. DELIVERABLE PRODUCT (X and complete as applicable.)

X	a. ORIGINALS (Specify current design activity's full size reproducible drawing or digital data file(s) on which is kept the revision record recognized as official) (Identify specification, type, grade and class, etc.) Drawing(s) original(s) shall be delivered in electronic format compatible with AutoCAD Release 14. The electronic drawing(s) will be delivered on IBM compatible CD(s). Test document(s) may be delivered in MS Word (Office 97) compatible format.
X	b. REPRODUCTIONS (Identify specifications, type, grade and class, etc., and quantity of each) Drawing copies shall be delivered in accordance with MIL-PRF-5480G, Class 2, Type A, Black Line reproduction.
X	e. DIGITAL DATA (Identify specification, exchange media, etc. and specify original (master) or copy) Drawing(s) original(s) shall be delivered in electronic format compatible with AutoCAD Release 14. The electronic drawing(s) will be delivered on IBM compatible CD(s). Test document(s) may be delivered in MS Word (Office 97) compatible format.

2. CAGE CODE AND DOCUMENT NUMBERS (X ONE)

a. CONTRACTOR			
X	b. GOVERNMENT Complete (1) and (2) or (3)		
(1) Use CAGE Code 53711		(2) Use Document Numbers 7604901	(3) To Be Assigned By: NUWCNPT, Code 3492

3. DRAWING FORMATS AND DRAWING FORMS (X one and complete as applicable)

	a. CONTRACTOR FORMATS. Forms to be supplied by contractor.
X	b. GOVERNMENT FORMATS. Forms to be supplied by contractor. Samples supplied by (Specify) SEE SAMPLE
	e. GOVERNMENT FORMATS. Forms to be supplied as Government Furnished Material by (Specify)

4. TYPES OF DRAWINGS SELECTION (X one)

a. CONTRACTOR SELECTS	X	b. GOVERNMENT SELECTS (Specify in Item 9)
-----------------------	----------	---

5. ASSOCIATED LISTS (X and complete as applicable)

a. PARTS LISTS (X one)		(1) integral		(2) Separate
b. DATA LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)
c. INDEX LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)
d. WIRING LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)
e. INDENTURED DATA LISTS(X one)		(1) Not Required		(2) Required (Specify levels of assembly)
f. APPLICATION LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)

6. DETAILS (X one)

a. MULTIDETAIL DRAWINGS PERMITTED	X	b. MONODETAIL DRAWINGS MANDATORY
-----------------------------------	----------	----------------------------------

7. VENDOR SUBSTANTIATION DATA (X one)

a. NOT REQUIRED	X	b. REQUIRED
-----------------	----------	-------------

8. APPLICABILITY OF STANDARDS. The following Standards apply. (X as applicable)

X	a. ASMEY14.100, ENGINEERING DRAWING PRACTICES (COMMERCIAL)	B.	b. ASME Y14.100, WITH APPENDICES B, C, D, E	c. ASME Y14.34M ASSOCIATED LISTS	d. EXISTING STANDARDS DO NOT APPLY
		C.			
		D.			
		E.			

9. OTHER TAILORING (Attach additional sheets as necessary)

The contractor shall develop a SOURCE CONTROL DRAWING in accordance with ASME Y14.24-1999.

SEE ADDITIONAL DRAWING REQUIREMENT ATTACHED.

ADDITIONAL DRAWING REQUIREMENTS

The Government shall be the design activity identified in the CAGE block of the drawing. The activity who prepares the drawing/document shall be identified on the drawing/document by its CAGE code and the applicable contract number.

The metric system shall not be used.

For drawings which do not have sufficient space to allow for identification of all requirements, the Contractor shall develop a separate book form drawing in accordance with ASME Y14.24-1999. For specifications, such as Test Specification (TS), Procurement Specifications (PS) etc. the drawing numbers shall consist of two alpha characters (TS – Test Specification, PS – Procurement Specification etc.) followed by numeric characters, e.g., TS7359012, PS7359012. All specification numbers shall be identified on the drawing and shown as a reference item on the parts list of assembly drawings.

No Contractor limited rights statements shall appear on drawings, or copies thereof, delivered to the Government. If the Contractor has item(s) that would have limited rights then the Contractor shall develop a control drawing in accordance with ASME Y14.24-1999.

Drawings shall specify requirements for marking of the part number identification on items (parts, assemblies, etc.). The drawing shall identify the method of marking and location on the part. Marking shall be in accordance with MIL-STD-130 and shall be notated on the drawing “MARKING REQUIREMENTS.”

Contractor in-house information shall not be referenced on the drawing, inside or outside of the drawing margins.

Drawings shall not be marked with statement indicating the item to be “SIMILAR TO” or “SAME AS”.

The following distribution statement shall be located in the field of the drawing, near the title block:

“DISTRIBUTION STATEMENT D: DISTRIBUTION AUTHORIZED TO DOD AND DOD CONTRACTORS ONLY; CRITICAL TECHNOLOGY (ENTER DATE DRAWING DEVELOPED). OTHER REQUEST SHALL BE REFERRED TO NAVUSSEAWARCEN DIV NEWPORT (CODE 342).”

“DESTRUCTION NOTICE – FOR UNCLASSIFIED, LIMITED DISTRIBUTION DOCUMENTS, DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.”



RFV

SH

DWG NO

1. DRAWING PREPARED IN ACCORDANCE WITH DOCUMENTS PRESCRIBED IN MIL-DTL-31000.

2. INTERPRET DRAWING PER ASME Y14.24-1999.

REVISIONS

ZONE

REV

DESCRIPTION

DATE

APPROVED

SAMPLE FORMAT

Distribution Statement D: Distribution authorized to Department of Defense and U. S. DOD contractors only; Critical Technology, (XX-XX-XX). Other requests for this document shall be referred to NUWC Division Newport, RI (Code 3492) or

DESTRUCTION NOTICE – FOR UNCLASSIFIED, LIMITED DISTRIBUTION DOCUMENTS, DESTROY BY ANY METHOD THAT WILL PREVENT DISCLOSURE OF CONTENTS OR RECONSTRUCTION OF THE DOCUMENT.

CONTRACT NO.

																		REV	SHEET
																		SHEET	INDEX

Unless otherwise specified
dimensions are in inches.
Tolerances: Fractions:
Angles:
3 Place Decimals:
2 Place Decimals:

DO NOT SCALE DRAWING

MATERIAL

NAVAL UNDERSEA
WARFARE CENTER
DIVISION
NEWPORT, RI 02841

DRAWN

CHECKED

APPROVED

APPROVED

APPROVED/ACCEPTED
FOR NAVSEA

YY-MM-DD

DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
ARLINGTON, VA 22242-5160

SIZE

FSCM NO.

DWG NO

RFV

A

53711

SCALE

SHEET

DRAWN BY

TOPGATE DOME DESIGN, ANALYSIS, AND FABRICATION

STATEMENT OF WORK

**SECTION 1
GENERAL REQUIREMENTS**

**SECTION 2
CONFIGURATION MANAGEMENT**

**SECTION 3
ADMINISTRATION, SCHEDULING & DATA MANAGEMENT**

**SECTION 4
QUALITY ASSURANCE**

**REV. -
DATED 10/24/03**

SECTION 1 STATEMENT OF WORK GENERAL REQUIREMENTS

- 1.0 Scope.** This Statement of Work (SOW) identifies the efforts required of the Contractor to design, analyze, and fabricate an optically transparent dome for the TOPGATE system. A feasibility study shall be performed prior to fabrication of the dome that includes, but is not limited to, material selection, environmental loading verification, schedule and risk assessments. Based on the dome redesign, if additional changes are required to the dome assembly, these changes shall be implemented upon concurrence by the Government.

The design shall address the following design requirements:

- a. The selection of material used to fabricate the optically transparent portion of the dome assembly.
- b. Sustained sealing of the dome assembly when subjected to hydrostatic pressure and loading associated with Periscope depth operation of the submarine.
- c. Sustained sealing of the dome assembly when subjected to hydrostatic pressure and loading associated with deep submergence of the submarine.
- d. Sustained sealing of the dome when subjected to hydrodynamic lift associated with flow over the dome when the submarine is operating in shallow depth (i.e., the lift is greater than the hydrostatic pressure attempting to seal the dome).

The design shall address the following design considerations:

- a. Maintaining existing physical envelope of the previous design to the greatest levels possible.
- b. Choice of optically transparent material (i.e., glass vs acrylic).
- c. Selection of O-ring design configuration that satisfies operational sealing requirements and environmental testing.

The Contractor shall document the results of the design studies in a deliverable technical report and a top-level assembly drawing in Contractor format. Upon acceptance of the design by the government, the Contractor shall fabricate a dome and/or dome assembly and test the assembly for environmental and hydrostatic acceptance with Government witnesses. The Contractor shall host a one-day technical review meeting and present the results Navy prior to the initiation of fabrication of the assembly.

There shall be no SUBSAFE work conducted under this contract.

1.1 Background. The Office of Naval Intelligence (ONI-34) has an underwater imaging requirement in support of the submarine force's missions. Johns Hopkins University/Applied Physics Laboratory (JHU/APL) has supported ONI-34 since FY-01 to design, build, and field an underwater imaging system, called TOPGATE, on board fast attack submarines.

The TOPGATE system has a relatively large dome mounted on top of the submarine sail; due to a portion of the dome being exposed to the free-field flow, the dome is subjected to both hydrostatic and hydrodynamic pressures. Several dome watertight integrity tests had shown that sufficient leakage existed to damage electronics/electrical equipment within the pressure vessel. ONI-34 halted the planned FY-03 program execution plan to address the dome leakage issue.

NUWC DIVNPT's FY-04 proposal includes the design and engineering efforts necessary to research the root cause of leakage, to design, fabricate, integrate and test the re-designed external enclosure, and to prepare for the deployment phase of the TOPGATE system in FY05.

1.2 Introduction. NUWC DIVNPT proposes to coordinate the redesign, fabrication, and test of a redesigned housing in FY04. The form/fit will be maintained as much as possible to avoid a costly redesign of the camera system components internal to the enclosure, and to ensure compatibility with the existing submarine installation concept. NUWC DIVNPT proposes a subcontracting arrangement with Kongsberg Maritime and JHU/APL. NUWC DIVNPT will coordinate the total systems engineering effort, Kongsberg Maritime will design, manufacture, and test a prototype housing; Kongsberg, with support from JHU/APL will also perform the initial integration of camera assembly to ensure compatibility. JHU/APL will complete the integration of the imaging system components into the enclosure and support preparations for submarine installation.

1.3 Applicable Documents. The following documents are applicable to General requirements. The issue in effect at time of contract modification award shall apply.

1.3.1 Military Specifications.

MIL-DTL-31000B	14 December 2001	Technical Data Packages, Detail Specification
----------------	------------------	--

1.3.2 Military Standards.

MIL-STD-130L	15 January 2000	Department of Defense Standard Practice, Identification Marking of U.S. Military Property
--------------	-----------------	--

MIL-PRF-5480G 1 July 1998

Performance Specification
Data, Engineering and
Technical: Reproduction**1.3.3 Other Publications.**ASME 30 Nov 2001
Y14.100-2000

Engineering Drawing Practices

ASME 29 Feb 2000
Y14.24-1999Types and Application of
Engineering Drawings**1.4 Requirements.****1.4.1 (This section has been deleted)****1.4.2 Pressure Vessel Assembly**

The Contractor shall fabricate the assembly consisting of the dome and cylindrical portion of the assembly (if required) for environmental testing (CDRL A002). The environmental test shall consist of

- Thermal shock in both the high and low temperature ranges.
- Hydrostatic pressure testing at both nominal depth and maximum depth
- Lift associated with flow over the partially exposed upper portion of the dome

1.4.3 Electrical Requirements. If the non-optical portion of the dome assembly is redesigned; all electrical interfaces associated with the new design shall be the same as the current design configuration.

1.4.4 Production Drawings.

a. The Contractor shall develop and deliver a replacement Source Control Drawing for the modified pressure vessel assembly or the modified optically transparent portion of the assembly in accordance with MIL-DTL-31000B and TDP Option Selection Worksheet Production Drawings and Associated Lists. (CDRL A003) The Navy reserves the right to conduct a meeting to review the engineering drawings formats during development.

b. The drawings shall be developed using CAD tools. The drawings shall be submitted to the Government in a format that is compatible with AutoCAD Release 14. All new text documents i.e. test procedures; specifications, etc. will be compatible using MS Word (Office 97). (CDRL A004)

1.5.0 Final Report. The contractor shall provide a final report detailing accomplishments and results of all testing (A005)

**ADDENDUM
SECTION 2
STATEMENT OF WORK
CONFIGURATION MANAGEMENT (CM)**

THIS SECTION HAS BEEN DELETED.

**ADDENDUM
SECTION 3
STATEMENT OF WORK
ADMINISTRATION, SCHEDULING & DATA MANAGEMENT**

3.0 Scope. This Statement of Work (SOW) applies to the Development Phase of the Acquisition Life Cycle and establishes the requirements for the Contractor's administration, scheduling and data management.

3.1 Applicable Documents. The following documents establish the requirements for Administration and Scheduling. The issue in effect at time of contract award shall apply.

3.1.1 Military Specifications.

MIL-DTL-31000B Packages,	14 December 2001	Technical Data Detail Specification
-------------------------------------	-------------------------	---

3.1.2 Military Standards.

MIL-STD-130L	15 January 2000	Department of Defense Standard Practice, Identification Marking of U.S. Military Property
MIL-PRF-5480G Specification	1 July 1998	Performance Data, Engineering and Technical: Reproduction

3.1.3 Other Publications.

ASME Y14.100-2000 Practices	30 Nov 2001	Engineering drawing
ASME Y14.24-1999	29 Feb 2000	Types and Application of Engineering Drawings

3.2 Program Management. The Contractor shall provide the program management necessary to ensure the timely and efficient performance of all tasks required by this SOW and this contract utilizing the Contractor's own management system.

3.2.1 Government-Contractor Meetings and Conferences. The Contractor shall be required to provide an agenda and minutes of design review in 1.4.1 If the Options are exercised the Contractor shall be required to provide agendas and minutes of all meetings, conferences and program and design reviews required by this contract. All agendas shall identify a period of open discussion as an agenda item.

3.2.1.1 Government Reviews. The Government reserves the right to review all non-proprietary engineering technical data developed by the Contractor or subcontractor.

3.2.1.2 This section has been deleted.

3.2.1.3 This section has been deleted.

3.2.1.4 Critical Design Review (CDR). The contractor shall host a Critical Design Review within 4 months after order award. The purpose of the design review is to determine that the detailed design for the pressure vessel (assembly) satisfies the performance and engineering requirements. An assessment of performance, compatibility, producibility, risk and supportability shall be presented. Fifteen days prior to the design review the Contractor shall deliver design review and Production drawings that describes the detailed design.

ADDENDUM
SECTION 4
STATEMENT OF WORK
QUALITY ASSURANCE

4.0 **Scope.** This Statement of Work (SOW) applies to the Development Phase of the Acquisition Life Cycle and establishes the requirements for the Contractor's Quality Assurance (QA) Program.

4.1 **Applicable Documents.** The following documents establish QA requirements. The issue in effect at time of contract award apply:

4.1.1 **Military Specifications.**

ANSI/OSO/ASQ Systems Q9001-2000 Requirements	13 Dec 2000	Quality Management
--	-------------	--------------------

4.1.2 **Military Standards.**

ANSI A8402	06 Feb 1995	Quality Management and Quality Assurance - Vocabulary
------------	-------------	---

4.2 **Requirements.**

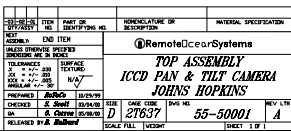
4.2.1 **Quality Assurance Program Requirements.** The Contractor shall develop a Quality Control Plan to establish, implement and maintain an effective, economical quality program to assure, through integrated and systematic approach, that the end items and data will achieve a high level of quality consistent with the requirements of ANSI/OSO/ASQ Q9001-2000. The Contractor's Quality Assurance (QA) efforts shall be in accordance with ANSI/OSO/ASQ Q9001-2000. The Contractor's QA organization shall be independent and participate in the planning of all aspects of hardware fabrication and data preparation to ensure that the end items and data being fabricated and prepared under this contract, is in accordance with the requirements of this SOW, this contract and CDRLs.

4.3 **Mercury Exclusion Certification.** The Contractor shall provide with each assembly identified by serial number, a Certification Summary Sheet for Mercury Exclusion. (CDRL A006)

Property	Stage 1	Stage 2	Duration
Hydrostatic pressure	10 psi	1050 psi	10 hours
Materials strength not significantly degraded	-80 F	160 F	In air
Materials strength not significantly degraded	28 F	90 F	In Seawater
Thermal Shock	-80 F (air)	28 F (water)	3 cycles
Thermal Shock	68 F (water)	160 F (air)	3 cycles
Flow Loading (ship speed of 20 knots)	922#	85.3 degrees	No leakage
Flow Loading (maximum speed of test facility)	TBD	TBD	No leakage
Maximum outer diameter of assembly (See note below)	inner diameter of 9.455 inches	outer diameter of 10.550 inches	

Note: The design of the new pressure assembly must accept the previously implemented internal component assembly. The previous glass dome had an inner diameter of 9.455 inches and an outer diameter of 10.550 inches. The deflection of the new assembly shall not exceed in the deflection of the old assembly. AutoCAD sheet assembly drawing will be provided during performance. Pdf files are provided for proposal purposes. If the camera is deployed in the 90-degree position instead of the zero degree position as shown; another 1.25" or so is lost in terms of the clearance between the top of the camera and the bottom of the dome. The actual hardware will be available for the contractor to taken any necessary dimensions. A solidworks model of the adapter is being made and this can also be available during performance upon request.

REV	DESCRIPTION	DATE
1	REV. 01/01/01	01/01/01



PARTS LIST		Q*Remark		Circuits		1788		PL 55-00001		NT	
QUANTITY		REV		TOP ASSEMBLY		REV		REV		REV	
-04-03-02-01		ITEM NO.		PART NO.		DESCRIPTION		REMARKS			
	1		1	1	30-00000	ACCORD. SINE					
	1		2	1	30-00000	ACCORD. SINE					
	1		3	1	30-00000	ACCORD. SINE					
	1		4	1	30-00000	ACCORD. SINE					
	1		5	1	30-00000	ACCORD. SINE					
	1		6	1	30-00000	ACCORD. SINE					
	1		7	1	30-00000	ACCORD. SINE					
	1		8	1	30-00000	ACCORD. SINE					
	1		9	1	30-00000	ACCORD. SINE					
	1		10	1	30-00000	ACCORD. SINE					
	1		11	1	30-00000	ACCORD. SINE					
	1		12	1	30-00000	ACCORD. SINE					
	1		13	1	30-00000	ACCORD. SINE					
	1		14	1	30-00000	ACCORD. SINE					
	1		15	1	30-00000	ACCORD. SINE					
	1		16	1	30-00000	ACCORD. SINE					
	1		17	1	30-00000	ACCORD. SINE					
	1		18	1	30-00000	ACCORD. SINE					
	1		19	1	30-00000	ACCORD. SINE					
	1		20	1	30-00000	ACCORD. SINE					
	1		21	1	30-00000	ACCORD. SINE					
	1		22	1	30-00000	ACCORD. SINE					
	1		23	1	30-00000	ACCORD. SINE					
	1		24	1	30-00000	ACCORD. SINE					
	1		25	1	30-00000	ACCORD. SINE					
	1		26	1	30-00000	ACCORD. SINE					
	1		27	1	30-00000	ACCORD. SINE					
	1		28	1	30-00000	ACCORD. SINE					
	1		29	1	30-00000	ACCORD. SINE					
	1		30	1	30-00000	ACCORD. SINE					
	1		31	1	30-00000	ACCORD. SINE					
	1		32	1	30-00000	ACCORD. SINE					
	1		33	1	30-00000	ACCORD. SINE					
	1		34	1	30-00000	ACCORD. SINE					
	1		35	1	30-00000	ACCORD. SINE					
	1		36	1	30-00000	ACCORD. SINE					
	1		37	1	30-00000	ACCORD. SINE					
	1		38	1	30-00000	ACCORD. SINE					
	1		39	1	30-00000	ACCORD. SINE					
	1		40	1	30-00000	ACCORD. SINE					
	1		41	1	30-00000	ACCORD. SINE					
	1		42	1	30-00000	ACCORD. SINE					
	1		43	1	30-00000	ACCORD. SINE					
	1		44	1	30-00000	ACCORD. SINE					
	1		45	1	30-00000	ACCORD. SINE					
	1		46	1	30-00000	ACCORD. SINE					
	1		47	1	30-00000	ACCORD. SINE					
	1		48	1	30-00000	ACCORD. SINE					
	1		49	1	30-00000	ACCORD. SINE					
	1		50	1	30-00000	ACCORD. SINE					
	1		51	1	30-00000	ACCORD. SINE					
	1		52	1	30-00000	ACCORD. SINE					
	1		53	1	30-00000	ACCORD. SINE					
	1		54	1	30-00000	ACCORD. SINE					
	1		55	1	30-00000	ACCORD. SINE					
	1		56	1	30-00000	ACCORD. SINE					
	1		57	1	30-00000	ACCORD. SINE					
	1		58	1	30-00000	ACCORD. SINE					
	1		59	1	30-00000	ACCORD. SINE					
	1		60	1	30-00000	ACCORD. SINE					
	1		61	1	30-00000	ACCORD. SINE					
	1		62	1	30-00000	ACCORD. SINE					
	1		63	1	30-00000	ACCORD. SINE					
	1		64	1	30-00000	ACCORD. SINE					
	1		65	1	30-00000	ACCORD. SINE					
	1		66	1	30-00000	ACCORD. SINE					
	1		67	1	30-00000	ACCORD. SINE					
	1		68	1	30-00000	ACCORD. SINE					
	1		69	1	30-00000	ACCORD. SINE					
	1		70	1	30-00000	ACCORD. SINE					
	1		71	1	30-00000	ACCORD. SINE					
	1		72	1	30-00000	ACCORD. SINE					
	1		73	1	30-00000	ACCORD. SINE					
	1		74	1	30-00000	ACCORD. SINE					
	1		75	1	30-00000	ACCORD. SINE					
	1		76	1	30-00000	ACCORD. SINE					
	1		77	1	30-00000	ACCORD. SINE					
	1		78	1	30-00000	ACCORD. SINE					
	1		79	1	30-00000	ACCORD. SINE					
	1		80	1	30-00000	ACCORD. SINE					
	1		81	1	30-00000	ACCORD. SINE					
	1		82	1	30-00000	ACCORD. SINE					
	1		83	1	30-00000	ACCORD. SINE					
	1		84	1	30-00000	ACCORD. SINE					
	1		85	1	30-00000	ACCORD. SINE					
	1		86	1	30-00000	ACCORD. SINE					
	1		87	1	30-00000	ACCORD. SINE					
	1		88	1	30-00000	ACCORD. SINE					
	1		89	1	30-00000	ACCORD. SINE					
	1		90	1	30-00000	ACCORD. SINE					
	1		91	1	30-00000	ACCORD. SINE					
	1		92	1	30-00000	ACCORD. SINE					
	1		93	1	30-00000	ACCORD. SINE					
	1		94	1	30-00000	ACCORD. SINE					
	1		95	1	30-00000	ACCORD. SINE					
	1		96	1	30-00000	ACCORD. SINE					
	1		97	1	30-00000	ACCORD. SINE					
	1		98	1	30-00000	ACCORD. SINE					
	1		99	1	30-00000	ACCORD. SINE					
	1		100	1	30-00000	ACCORD. SINE					